Amendments to the claims:

Please cancel claims 2, 10, and 11 without prejudice. Please amend claims 1, 4, 9, 12, 13, 15, 16, and 18 as follows.

- (Currently amended) A method for synthesizing carbon nanotubes using magnetic fluid by thermal chemical vapor deposition, which comprises the steps of:
- (S1) producing a catalytic metal <u>compound</u> using the magnetic fluid, and then adding a binder to the catalytic metal compound;
- (S2) coating the produced catalytic metal <u>compound</u> on a substrate <u>by injection or by</u>

 <u>dipping the substrate in a catalytic metal compound solution;</u> and
 - (S3) synthesizing the carbon nanotubes.
 - 2. (Canceled)
- (Original) The method of claim 1, wherein the magnetic fluid is produced from iron chloride.
- 4. (Currently amended) The method of claim 1, wherein the step (S1) comprises the steps of:
- (S1-1) producing an aqueous iron chloride solution with ferrous chloride, ferric chloride and distilled water;
 - (S1-2) heating and stirring the aqueous iron chloride solution;
 - (S1-3) adding ammonium hydroxide to the aqueous iron chloride solution to produce

magnetite (Fe₃O₄) particles;

- (S1-4) adding a surfactant to the aqueous iron chloride solution;
- (S1-5) adding water and acctone to the aqueous iron chloride solution to separate the magnetite particles from liquid; and
- (S1-6) producing a solution of catalytic metal <u>compound</u> with the magnetite particles, distilled water and a binder.
- 5. (Original) The method of claim 4, wherein the steps (S1-1) and (S1-3) further comprise adjusting the amount of iron chloride and ammonium hydroxide to obtain the magnetite (Fe₃O₄) particles of a desired size.
- (Original) The method of claim 5, wherein the magnetite (Fe₃O₄) particles have a diameter of 10-100 nm.
- (Original) The method of claim 4, wherein the surfactant used in the step (S1-4) is a fatty acid.
 - 8. (Original) The method of claim 7, wherein the fatty acid is CH₃(CH₂)₈CO₂H.
- (Currently amended) The method of claim 7, wherein a portion of the fatty acid is added several times with interval in intervals.
 - 10-11. (Canceled)
- 12. (Currently amended) The method of claim 10, wherein the coating further comprises spin-coating the catalytic metal compound with a spin coater.

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13. (Currently amended) The method of claim 11, wherein the coating additionally comprises spin-coating the catalytic metal compound with a spin coater.

- 14. (Original) The method of claim 12, wherein the spin-coating is performed at a rotational speed of about 100-5,000 rpm.
 - 15. (Currently amended) The method of claim 2 1, wherein the binder is a ceramic binder.
- 16. (Currently amended) The method of claim 1, wherein the step (S3) comprises step (S3-1) of charging the substrate coated with the catalytic metal <u>compound</u> into a heating device, into which a source gas is then introduced to synthesize the carbon nanotubes on the substrate.
- 17. (Original) The method of claim 16, wherein the source gas comprises acetylene, ammonia and hydrogen.
- 18. (Currently amended) The method of claim 16, wherein the carbon nanotubes are synthesized at an atmospheric temperature of about 800-900 °C, after the substrate coated with the catalytic metal compound is charged into the heating device.
- 19. (Original) The method of claim 1, wherein the steps (S2) and (S3) further comprise coating the substrate in a batch process, and continuously charging the substrate into the heating device.
- 20. (Original) The method of claim 19, wherein prior to charging the substrate into the heating device, the atmospheric temperature in the device is a temperature for synthesizing the carbon nanotubes.